

FIRE ALARM SYSTEM GENERAL NOTES

1. SCOPE OF WORK: WORK SHALL INCLUDE REMOVAL OF EXISTING CONVENTIONAL FIRE ALARM SYSTEM INCLUDING ALL CONTROL EQUIPMENT, POWER SUPPLIES, CABINETS, INT. CIRCUITS AND DEVICES, NOTIFICATION APPLIANCE CIRCUITS AND DEVICES. INSTALL NEW FIRE ALARM SYSTEM INCLUDING CONTROL PANEL WITH NEW SIGNALING LINE CIRCUITS, INITIATING DEVICE CIRCUITS AND NOTIFICATION APPLIANCE CIRCUITS. NEW FIRE ALARM SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 72, THESE DRAWINGS AND SPECIFICATIONS.
2. APPLICABLE CODES/STANDARDS: INTERNATIONAL BUILDING CODE - 2006 EDITION INTERNATIONAL FIRE CODE - 2006 EDITION UTAH STATE FIRE MARSHAL RULE R710-4 NFPA 70 - 2005 EDITION NFPA 72 - 2007 EDITION
3. QUALITY ASSURANCE: ALL EQUIPMENT, MATERIAL AND DEVICES USED FOR THE FIRE ALARM SYSTEM INSTALLATION SHALL BE UL LISTED AND/OR FM APPROVED FOR USE IN FIRE PROTECTION SYSTEMS. ALL INITIATING DEVICES SHALL BE LISTED COMPATIBLE WITH THE FIRE ALARM CONTROL PANEL (FACP). MAJOR SYSTEM COMPONENTS (CONTROL PANELS, INITIATING DEVICES, ADDRESSABLE MODULES AND RELAYS, POWER SUPPLIES, ETC.) SHALL BE FROM A STATE OF UTAH DFCM APPROVED MANUFACTURER. APPROVED MANUFACTURERS INCLUDE FIRE-LITE AND SILENT KNIGHT.
4. SUBMITTALS: ENGINEERED DRAWINGS HAVE BEEN REVIEWED AND APPROVED BY USFM AND STATE BLDG OFFICIAL. CONTRACTOR SHALL INSTALL FIRE ALARM SYSTEM PER APPROVED PLANS AND SPECS. DEVIATIONS FROM PLANS SHALL BE APPROVED BY PROJECT ENGINEER AND CLEARLY MARKED ON AS-BUILT DRAWINGS. NO ADDITIONAL DRAWING SUBMITTAL (EXCEPT AS-BUILTS) WILL BE REQUIRED.

5. DEMOLITION: IT IS THE INSTALLER'S RESPONSIBILITY FOR THE DEMOLITION OF THE EXISTING FIRE ALARM SYSTEM. EXISTING DEVICES AND CONDUIT NOT BEING REPLACED AND REUSED THAT ARE VISIBLE, SUCH AS CABINETS, NOTIFICATION APPLIANCES OR SMOKE DETECTORS SHALL BE REMOVED AND REMAINING WALL OR CEILING SURFACE REPAIRED OR REPLACED TO MATCH SURROUNDING AREAS. REMOVE ALL UNUSED WIRE IN ALL REMAINING J-BOXES AND/OR CONDUITS. ANY CEILING TILE DAMAGED BY THE INSTALLER MUST BE REPLACED WITH THE SAME OR EQUIVALENT TILE.
6. SYSTEM TYPE: FIRE ALARM SYSTEM SHALL MEET THE REQUIREMENTS FOR PROTECTED PREMISE FIRE ALARM SYSTEMS. SYSTEM SHALL PROVIDE OFF-PREMISE NOTIFICATION OF STATUS TO CENTRAL STATION DETERMINED BY OWNER.
7. OCCUPANT NOTIFICATION: NOTIFICATION CIRCUITS SHALL BE ZONED WITH ONE ZONE PER BUILDING. PROVIDE REMOTE NOTIFICATION POWER SUPPLIES IN EACH BUILDING TO POWER NOTIFICATION CIRCUITS. CONFIGURE NOTIFICATION CIRCUITS IN EACH BUILDING TO ACTIVATE ONLY UPON OPERATION OF AN INITIATING DEVICE IN THAT BUILDING.
8. WIRING/CONDUIT: ALL WIRING SHALL BE NEW (EXISTING WIRING MAY NOT BE RE-USED) AND SHALL BE FREE OF SPENTS, SHORTS AND GROUNDS. ALL WIRING SHALL BE INSTALLED IN RIGID CONDUIT OR EMT. METAL CLAD OR ARMORED CABLE MAY BE USED WHERE INSTALLED AND SUPPORTED PER NFPA 70, DFCM REQUIREMENTS AND NEMA STANDARD RYLM. MINIMUM CONDUIT SIZE SHALL BE 1/2" CONDUIT SHALL BE CONCEALED IN FINISHED AREAS AND MAY BE EXPOSED IN UNFINISHED AREAS. PAINT EXPOSED CONDUIT TO MATCH COLOR OF SURROUNDING BUILDING ELEMENTS. ALL PENETRATIONS THROUGH RATED PARTITIONS SHALL BE FIRE STOPPED WITH A SUITABLE CAULKING COMPOUND. ALL WIRING USED IN THE FIRE ALARM SYSTEM SHALL BE FPL (FIRE POWER LISTED) WITH MINIMUM 300V INSULATION OR EQUIVALENT AS PER NFPA 70 ARTICLE 760.

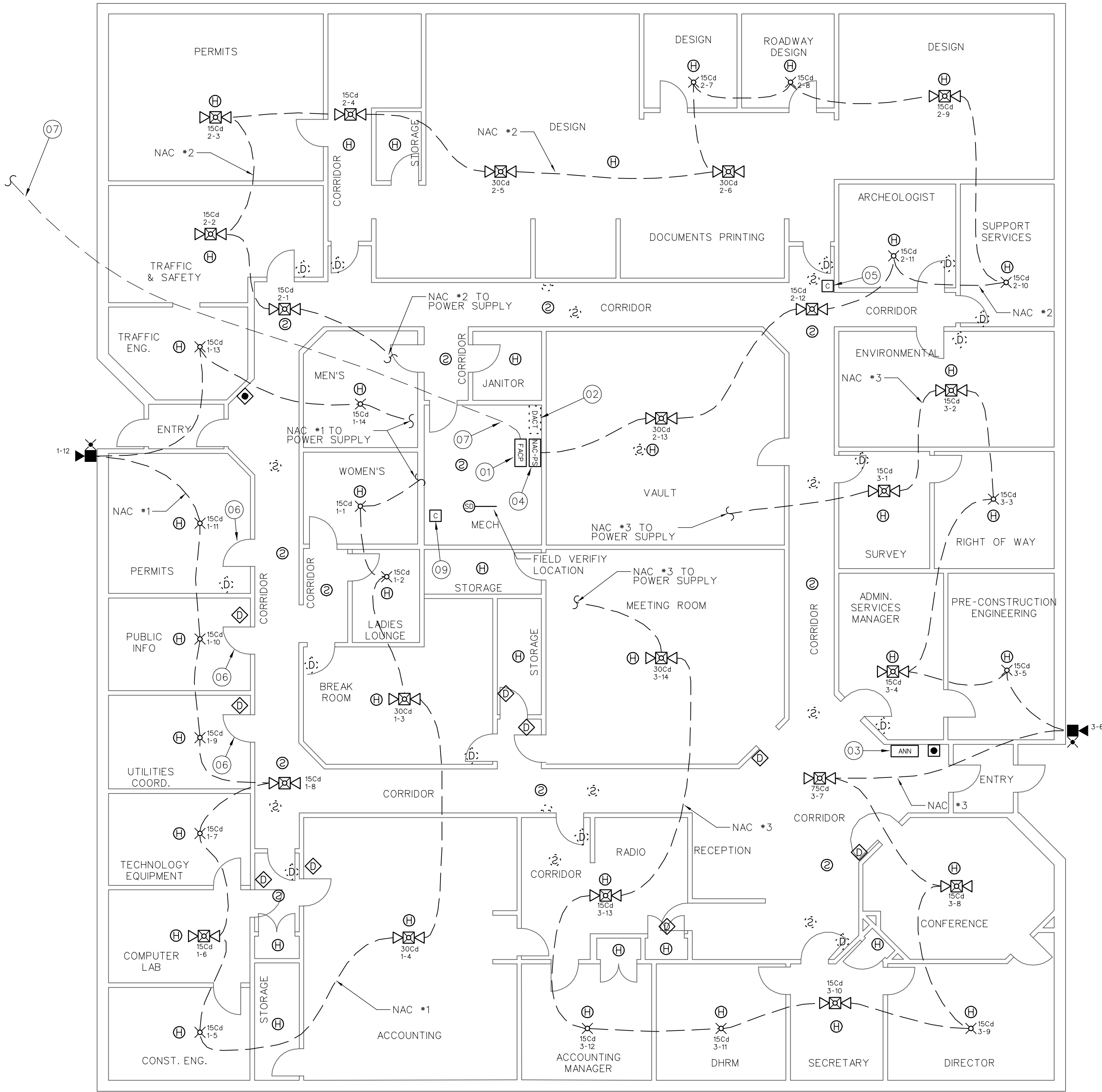
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10. POWER: EXISTING DEDICATED BRANCH CIRCUITS MAY BE REUSED TO PROVIDE PRIMARY POWER TO NEW FACP AND REMOTE NOTIFICATION CIRCUIT POWER SUPPLIES. FURNISH A BATTERY BACKUP TO PROVIDE SECONDARY POWER SUPPLY TO FIRE ALARM PANEL AND NOTIFICATION CIRCUIT POWER SUPPLIES. BATTERY BACKUP SHALL BE OF SUFFICIENT CAPACITY TO PROVIDE 24 HOURS OF STANDBY POWER WITH AN ADDITIONAL RESERVE TO OPERATE SYSTEM FOR 5 MINUTES IN ALARM.
11. INITIATING DEVICES: DUCT SMOKE DETECTORS: INSTALL DUCT SMOKE DETECTORS IN SUPPLY DUCTS OF ALL AIR HANDLERS WITH A CAPACITY IN EXCESS OF 2,000 CFM. SMOKE DETECTORS: PROVIDE SMOKE DETECTORS WHERE SHOWN ON PLANS IN ALL CORRIDORS AND LOBBIES. MAXIMUM SPACING OF DETECTORS SHALL BE 30' BETWEEN DETECTORS OR 15' FROM FURTHEST WALL. MANUAL PULL STATIONS: INSTALL NEW PULL STATIONS AT SAME LOCATION AND HEIGHT AS EXISTING PULL STATIONS USING EXISTING JUNCTION BOXES. WHERE NEW MANUAL PULL STATIONS ARE INDICATED ON THE PLAN INSTALL WITH OPERATING ELEMENT AT 48" AFF. HEAT DETECTORS: PROVIDE HEAT DETECTORS WHERE SHOWN ON PLANS IN ALL AREAS NOT PROTECTED WITH SMOKE DETECTORS. MAXIMUM SPACING FOR HEAT DETECTORS SHALL BE 50' BETWEEN DETECTORS OR 25' FROM FURTHEST WALL.

12. NOTIFICATION APPLIANCES: PROVIDE AUDIBLE AND VISUAL NOTIFICATION APPLIANCES THROUGHOUT BUILDINGS. VOLUME OF HORNS SHALL BE SUFFICIENT TO PROVIDE A SOUND LEVEL OF 15 DB ABOVE AMBIENT IN ALL OCCUPIED AREAS. VISIBLE ALARMS SHALL BE PROVIDED THROUGHOUT ALL OCCUPIED AREAS OF THE BUILDING INCLUDING PRIVATE OFFICES AND AREAS WITH POSSIBLE OCCUPANCY BY HEARING IMPAIRED PERSONS. STROBES SHALL FLASH IN SYNCHRONIZATION.
13. FIRE SAFETY FUNCTIONS: CONTROL MODULE WITH RELAY CONTACTS SHALL BE INSTALLED AND PROGRAMMED TO PROVIDE DOOR RELEASE AND FAN SHUTDOWN. THE CONTROL RELAY MODULES SHALL BE INSTALLED WITHIN 36" OF DEVICE OR CIRCUIT CONTROLLED.
14. PHASING: PLAN SEQUENCE OF WORK TO MINIMIZE DOWN TIME OF FIRE ALARM SYSTEM. EXISTING FIRE ALARM SYSTEM SHALL REMAIN IN SERVICE UNTIL NEW SYSTEM IS INSTALLED AND OPERATIONAL. IT IS THE INSTALLER'S RESPONSIBILITY TO NOTIFY PROPER AUTHORITIES AND PROVIDE A FIRE WATCH DURING INTERRUPTIONS OF FIRE DETECTION AND ALARM SERVICE IN THE BUILDING.
15. TESTING: SCHEDULE AND PERFORM ALL ACCEPTANCE TESTS REQUIRED BY NFPA 72. TESTING SHALL BE WITNESSED BY STATE FIRE MARSHAL'S OFFICE, PROJECT ENGINEER, DFCM AND BUILDING MAINTENANCE PERSONNEL. SUBMIT A WRITTEN TESTING PLAN DETAILING EACH TEST TO BE PERFORMED TO EACH AGENCY AT LEAST ONE DAY PRIOR TO SCHEDULED TEST.

FIRE ALARM SYSTEM KEY NOTES

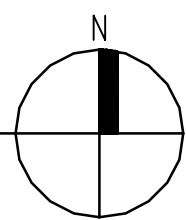
- ① REMOVE EXISTING CONVENTIONAL FIRE ALARM CONTROL PANEL (FACP), MODULES AND ENCLOSURE. FURNISH AND INSTALL NEW ADDRESSABLE FACP (SILENT KNIGHT 5820XL OR EQUAL) ADJACENT TO EXISTING PANEL. FACP SHALL PROVIDE ALL REQUIRED PROTECTED PREMISES FIRE SAFETY FUNCTIONS (ACTIVATION OF LOCAL ALARMS, FIRE DOOR RELEASE). FACP SHALL RELAY FIRE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO OFF-PREMISE CENTRAL STATION USING DIGITAL COMMUNICATOR AND NEW PHONE LINES (PRIMARY & SECONDARY).
- ② EXISTING DIGITAL ALARM COMMUNICATOR/TRANSMITTER (DACT) PROVIDES OFF-PREMISE MONITORING FOR EXISTING FIRE ALARM AND SECURITY SYSTEMS. MODIFY DACT TO COMMUNICATE SECURITY SIGNALS ONLY. OFF-PREMISE FIRE ALARM SIGNALS TO BE TRANSMITTED BY NEW FIRE ALARM CONTROL PANEL. EXTEND NEW PHONE LINES FROM NEAREST TELEPHONE BOARD TO FACP AS REQUIRED. MONITORING ACCOUNT TO BE PROVIDED BY OWNER.
- ③ EXISTING ANNUNCIATOR PANEL FOR CONVENTIONAL FIRE ALARM SYSTEM TO BE REMOVED. FURNISH AND INSTALL NEW REMOTE ANNUNCIATOR FOR ADDRESSABLE FIRE ALARM SYSTEM AT SAME LOCATION. PROVIDE DECORATIVE COVER PLATES (APPROVED BY OWNER) OR PATCH WALL AT VOID SPACE CREATED BY REMOVAL OF LARGER EXISTING ANNUNCIATOR.
- ④ FURNISH AND INSTALL NEW INTELLIGENT POWER SUPPLIES (SILENT KNIGHT 5895XL OR EQUAL) TO PROVIDE 24 VDC POWER TO NEW NOTIFICATION APPLIANCE CIRCUITS AND MAGNETIC DOOR HOLD-OPEN DEVICES. PROVIDE BACKUP BATTERIES SIZED TO MEET STANDBY DEMAND OF POWER SUPPLY FOR 24 HOURS WITH AN ADDITIONAL RESERVE FOR 5 MINUTES OF ALARM POWER. NUMBER AND CAPACITY OF POWER SUPPLIES AND LAYOUT OF NOTIFICATION APPLIANCE CIRCUITS SHALL LIMIT VOLTAGE DROP BETWEEN POWER SUPPLY AND MOST REMOTE DEVICE ON CIRCUIT TO LESS THAN 20%. PROVIDE MODULES AS REQUIRED TO SYNCHRONIZE STROBE FLASHES OF ALL NOTIFICATION APPLIANCES WITHIN A SINGLE FIELD OF VIEW.
- ⑤ PROVIDE PROGRAMMABLE RELAY TO RELEASE NEW AND EXISTING MAGNETIC DOOR HOLD-OPEN DEVICES ON FIRE DOORS UPON RECEIPT OF ANY FIRE ALARM SIGNAL AT THE FACP. POWER TO MAGNETS TO BE PROVIDED BY CIRCUIT FROM FACP OR REMOTE POWER SUPPLY SUPERVISED BY THE FACP.
- ⑥ EXISTING FIRE DOOR AT 1-HOUR CORRIDOR WITH DAMAGED OR MISSING CLOSURE. REPAIR CLOSURE OR INSTALL NEW CLOSURE ON EXISTING DOOR. CLOSURE SHALL BE INSTALLED AND ADJUSTED SUCH THAT DOOR AUTOMATICALLY CLOSSES AND POSITIVELY LATCHES WHEN RELEASED BY MAGNETIC HOLD-OPEN DEVICE.
- ⑦ EXISTING BURIED CONDUIT BETWEEN OFFICE BUILDING AND SHOP BUILDING TO BE RE-USED. PULL NEW WIRE IN EXISTING CONDUIT TO ENABLE CONNECTION OF INTELLIGENT POWER SUPPLY IN SHOP BUILDING TO FACP IN OFFICE BUILDING VIA THE S-BUS CIRCUIT. CONTRACTOR SHALL FIELD VERIFY LOCATION OF CONDUIT STUB UP IN BOTH BUILDINGS. S-BUS CIRCUIT SHALL BE CLASS A BUT SUPPLY AND RETURN CONDUCTOR MAY BE RUN IN SAME UNDERGROUND CONDUIT.
- ⑧ INSTALL SILENT KNIGHT 5815XL SLC EXPANDER (OR EQUAL) AT REMOTE POWER SUPPLY FOR INITIATING DEVICES IN SHOP BUILDING.
- ⑨ FURNISH AND INSTALL A PROGRAMMABLE RELAY TO SHUT DOWN EACH AIR HANDLER WITH A CAPACITY IN EXCESS OF 2,000 CFM. CONTROL RELAYS SHALL BE NORMALLY ENERGIZED AND FAN CONTROLS SHALL BE CONNECTED TO NORMALLY CLOSED CONTACTS ON THE RELAYS. RELAYS SHALL BE PROGRAMMED TO SHUT DOWN ALL AIR HANDLERS SIMULTANEOUSLY UPON ACTIVATION OF ANY AREA OR DUCT SMOKE DETECTOR AND SHALL NOT RESTORE UNTIL THE FACP HAS RESET. FIELD LOCATE RELAY.

CEILING NOTE: GYP-BOARD OR LAY-IN TILE CEILINGS (APPROXIMATELY 9'-0" AFF) PROVIDED IN ALL AREAS



OFFICE BUILDING FIRE ALARM PLAN

1/8" = 1'-0"



FIRE ALARM EQUIPMENT LEGEND

DEVICE	DESCRIPTION	MOUNTING	REMARKS
FACP	NEW ADDRESSABLE FIRE ALARM CONTROL PANEL TO REPLACE EXISTING CONVENTIONAL PANEL.	SURFACE MOUNT ON WALL ADJACENT TO EXISTING FACP TO BE REMOVED	SILENT KNIGHT MODEL 5820XL OR EQUAL
ANN	NEW FIRE ALARM REMOTE ANNUNCIATOR PANEL TO REPLACE EXISTING ANNUNCIATOR	MOUNT ON NEW OR EXISTING J-BOX RECESSED INTO WALL	SILENT KNIGHT 5860 OR EQUAL
NAC-PS	NEW INTELLIGENT POWER SUPPLY.	SURFACE MOUNT ON WALL	TO POWER NOTIFICATION APPLIANCE CIRCUITS AND MAGNETIC DOOR HOLD-OPEN DEVICES. SILENT KNIGHT 5895XL OR EQUAL
DACT	EXISTING DIGITAL ALARM COMMUNICATOR/TRANSMITTER.	EXISTING	EXISTING DACT TO BE RECONFIGURED. FUNCTION OF DACT TO BE BUILT-INTO NEW ADDRESSABLE FACP. EXTEND EXISTING PRIMARY AND SECONDARY TELEPHONE LINES FROM DACT TO FACP
Ⓢ	NEW ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR	CEILING MOUNTED ON RECESSED J-BOX	INSTALL NEW SMOKE DETECTORS IN ALL CORRIDORS AND LOBBIES AT A MAXIMUM SPACING OF 30' O.C. SILENT KNIGHT 5850S-ARM OR EQUAL
Ⓢ	EXISTING SMOKE DETECTOR	EXISTING CEILING MOUNT	REMOVE EXISTING DEVICE. WIRING AND J-BOX. REPLACE CEILING TILE WITH NEW TILE
Ⓢ	NEW ADDRESSABLE HEAT DETECTOR (FIXED TEMP.)	CEILING MOUNTED ON RECESSED J-BOX	INSTALL NEW HEAT DETECTORS IN ALL ROOMS WITHOUT SMOKE DETECTORS AT A MAXIMUM SPACING OF 50' O.C. SILENT KNIGHT 5850S-ARM OR EQUAL
Ⓢ	NEW DUCT SMOKE DETECTOR	DUCT MOUNT ON SUPPLY SIDE OF AIR HANDLER.	SILENT KNIGHT 5850S-AH (OR EQUAL) INSTALL PER MANUFACTURER'S RECOMMENDATIONS
Ⓢ	NEW ADDRESSABLE MANUAL PULL STATION TO REPLACE EXISTING PULL STATION.	MOUNT ON EXISTING J-BOX.	REPLACE EXISTING PULL STATIONS WITH NEW ADDRESSABLE PULL STATIONS COMPATIBLE WITH NEW FACP. SILENT KNIGHT 58500-PS OR EQUAL
Ⓢ	NEW ADDRESSABLE RELAY MODULE	MOUNT ON J-BOX WITHIN 3' OF DEVICE OR CIRCUIT CONTROLLED.	TO PROVIDE PROTECTED PREMISE FIRE SAFETY FUNCTIONS SUCH AS DOOR RELEASE. SILENT KNIGHT 58500-ARM OR EQUAL
Ⓢ	NEW MAGNETIC DOOR HOLD OPEN DEVICE	SURFACE MOUNT ON WALL. PROVIDE CONCEALED CONDUIT OR PAINTED WIRE MOLDING FOR POWER CIRCUIT.	DOOR HOLDER FOR NORMALLY OPEN DOOR IN RATED WALL. SUPERVISED 24 VDC POWER TO DOOR HOLDER SHALL BE SUPPLIED BY FACP OR REMOTE POWER SUPPLY. RACKS MODEL 586. 997 OR EQUAL
Ⓢ	EXISTING MAGNETIC DOOR HOLD OPEN DEVICE	EXISTING	CONNECT EXISTING DOOR HOLDER TO EXISTING 24 VDC POWER SUPPLIED BY FACP OR REMOTE POWER SUPPLY.
Ⓢ	NEW FIRE ALARM HORN/STROBE	CEILING MOUNTED ON RECESSED J-BOX.	CANDELA RATING OF STROBE SHALL BE AS INDICATED ON DRAWINGS. STROBES SHALL BE SYNCHRONIZED WITH ALL OTHER STROBES IN VIEW. DEVICE SHALL BE POWERED FROM FACP OR REMOTE NOTIFICATION APPLIANCE CIRCUIT. POWER SUPPLY. COLOR SHALL BE WHITE SYSTEM SENSOR PCOW OR EQUAL
Ⓢ	NEW FIRE ALARM STROBE	CEILING MOUNTED ON RECESSED J-BOX.	CANDELA RATING OF STROBE SHALL BE AS INDICATED ON DRAWINGS. STROBES SHALL BE SYNCHRONIZED WITH ALL OTHER STROBES IN VIEW. DEVICE SHALL BE POWERED FROM FACP OR REMOTE NOTIFICATION APPLIANCE CIRCUIT. POWER SUPPLY. COLOR SHALL BE WHITE SYSTEM SENSOR PCOW OR EQUAL
Ⓢ	NEW EXTERIOR FIRE ALARM HORN/STROBE	WALL MOUNTED ON NEW WEATHERPROOF J-BOX AT HEIGHT INDICATED ON DWGS	CANDELA RATING OF STROBE TO BE A MINIMUM OF 15/75 CD. DEVICE SHALL BE POWERED BY FACP OR REMOTE POWER SUPPLY. COLOR SHALL BE RED. DEVICE SHALL BE LISTED FOR EXTERIOR INSTALLATION
Ⓢ	EXISTING FIRE ALARM HORN	EXISTING TO BE REMOVED.	REMOVE EXISTING DEVICE AND WIRING AND PROVIDE COVER PLATE (APPROVED BY OWNER) FOR EXISTING J-BOX
Ⓢ	EXISTING FIRE ALARM BELL	EXISTING TO BE REMOVED.	REMOVE EXISTING DEVICE AND WIRING AND PROVIDE COVER PLATE (APPROVED BY OWNER) FOR EXISTING J-BOX

UDOT REGION 1 - OFFICE BUILDING & SHOP OGDEN, UTAH

FIRE ALARM SYSTEM UPGRADE DFCM PROJECT #07217900

OFFICE BUILDING FIRE ALARM PLAN FA-1

DRAWING DATE: 06/29/07

REVISION DATE: XXXX/07

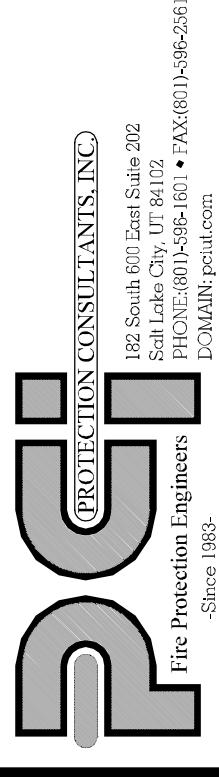
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DWG ISSUE: BID

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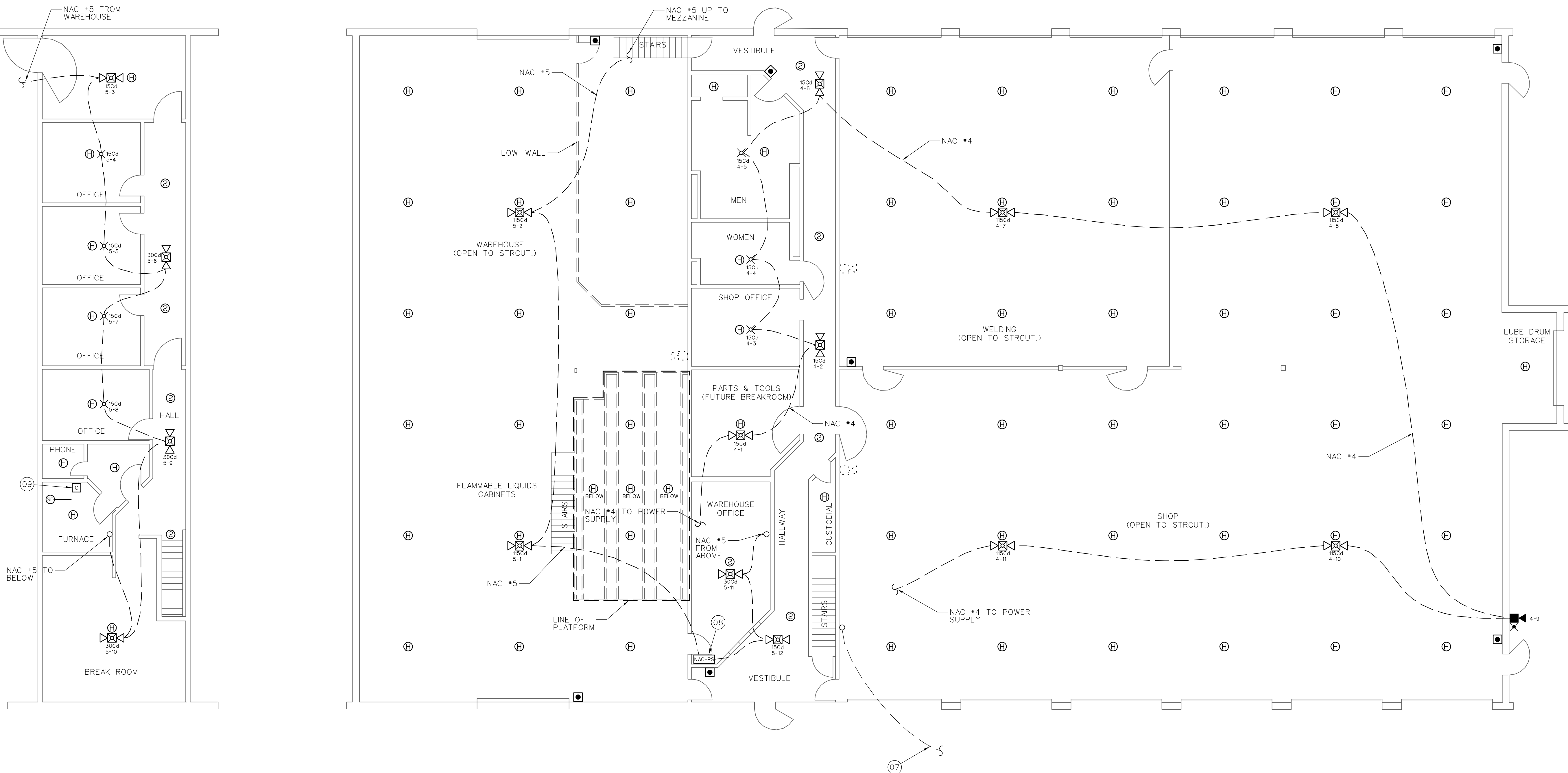
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- ⑤ PROVIDE PROGRAMMABLE RELAY TO RELEASE NEW AND EXISTING MAGNETIC DOOR HOLD-OPEN DEVICES ON FIRE DOORS UPON RECEIPT OF ANY FIRE ALARM SIGNAL AT THE FACP. POWER TO MAGNETS TO BE PROVIDED BY CIRCUIT FROM FACP OR REMOTE POWER SUPPLY SUPERVISED BY THE FACP.
- ⑥ EXISTING FIRE DOOR AT 1-HOUR CORRIDOR WITH DAMAGED OR MISSING CLOSURE. REPAIR CLOSURE OR INSTALL NEW CLOSURE ON EXISTING DOOR. CLOSURE SHALL BE INSTALLED AND ADJUSTED SUCH THAT DOOR AUTOMATICALLY CLOSSES AND POSITIVELY LATCHES WHEN RELEASED BY MAGNETIC HOLD-OPEN DEVICE.
- ⑦ EXISTING BURIED CONDUIT BETWEEN OFFICE BUILDING AND SHOP BUILDING TO BE RE-USED. PULL NEW WIRE IN EXISTING CONDUIT TO ENABLE CONNECTION OF INTELLIGENT POWER SUPPLY IN SHOP BUILDING TO FACP IN OFFICE BUILDING VIA THE S-BUS CIRCUIT. CONTRACTOR SHALL FIELD VERIFY LOCATION OF CONDUIT STUB UP IN BOTH BUILDINGS. S-BUS CIRCUIT SHALL BE CLASS A BUT SUPPLY AND RETURN CONDUCTOR MAY BE RUN IN SAME UNDERGROUND CONDUIT.
- ⑧ INSTALL SILENT KNIGHT 5815XL SLC EXPANDER (OR EQUAL) AT REMOTE POWER SUPPLY FOR INITIATING DEVICES IN SHOP BUILDING.
- ⑨ FURNISH AND INSTALL A PROGRAMMABLE RELAY TO SHUT DOWN EACH AIR HANDLER WITH A CAPACITY IN EXCESS OF 2,000 CFM. CONTROL RELAYS SHALL BE NORMALLY ENERGIZED AND FAN CONTROLS SHALL BE CONNECTED TO NORMALLY CLOSED CONTACTS ON THE RELAYS. RELAYS SHALL BE PROGRAMMED TO SHUT DOWN ALL AIR HANDLERS SIMULTANEOUSLY UPON ACTIVATION OF ANY AREA OR DUCT SMOKE DETECTOR AND SHALL NOT RESTORE UNTIL THE FACP HAS RESET. FIELD LOCATE RELAY.

FIRE ALARM EQUIPMENT LEGEND

DEVICE	DESCRIPTION	MOUNTING	REMARKS
FACP	NEW ADDRESSABLE FIRE ALARM CONTROL PANEL TO REPLACE EXISTING CONVENTIONAL PANEL.	SURFACE MOUNT ON WALL ADJACENT TO EXISTING FACP TO BE REMOVED	SILENT KNIGHT MODEL 5820XL OR EQUAL
ANN	NEW FIRE ALARM REMOTE ANNUNCIATOR ANNUNCIATOR	MOUNT ON NEW OR EXISTING J-BOX RECESSED INTO WALL	SILENT KNIGHT 5860 OR EQUAL
NAC-PS	NEW INTELLIGENT POWER SUPPLY.	SURFACE MOUNT ON WALL	TO POWER NOTIFICATION APPLIANCE CIRCUITS AND MAGNETIC DOOR HOLD-OPEN DEVICES. SILENT KNIGHT 5895XL OR EQUAL
DACT	EXISTING DIGITAL ALARM COMMUNICATOR/TRANSMITTER.	EXISTING	EXISTING DACT TO BE RECONFIGURED. FUNCTION OF DACT TO BE BUILT-INTO NEW ADDRESSABLE FACP. EXTEND EXISTING PRIMARY AND SECONDARY TELEPHONE LINES FROM DACT TO FACP
SD	NEW ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR	CEILING MOUNTED ON RECESSED J-BOX	INSTALL NEW SMOKE DETECTORS IN ALL CORRIDORS AND LOBBIES AT A MAXIMUM SPACING OF 30' O.C. SILENT KNIGHT 5850S-ARF OR EQUAL
SD	EXISTING SMOKE DETECTOR	EXISTING CEILING MOUNT	REMOVE EXISTING DEVICE. WIRING AND J-BOX. REPLACE CEILING TILE WITH NEW TILE.
H	NEW ADDRESSABLE HEAT DETECTOR (FIXED TEMP.)	CEILING MOUNTED ON RECESSED J-BOX	INSTALL NEW HEAT DETECTORS IN ALL ROOMS WITHOUT SMOKE DETECTORS AT A MAXIMUM SPACING OF 50' O.C. SILENT KNIGHT 5850S-ARF OR EQUAL
SD	NEW DUCT SMOKE DETECTOR	DUCT MOUNT ON SUPPLY SIDE OF AIR HANDLER.	SILENT KNIGHT 5850S-AWH (OR EQUAL) INSTALL PER MANUFACTURER'S RECOMMENDATIONS
PS	NEW ADDRESSABLE MANUAL PULL STATION TO REPLACE EXISTING PULL STATION.	MOUNT ON EXISTING J-BOX.	REPLACE EXISTING PULL STATIONS WITH NEW ADDRESSABLE PULL STATIONS COMPATIBLE WITH NEW FACP. SILENT KNIGHT 58500-PS OR EQUAL
FR	NEW ADDRESSABLE RELAY MODULE	MOUNT ON J-BOX WITHIN 3' OF DEVICE OR CIRCUIT CONTROLLED.	TO PROVIDE PROTECTED PREMISE FIRE FIRE SAFETY FUNCTIONS SUCH AS DOOR RELEASE. SILENT KNIGHT 58500-ARM OR EQUAL
DO	NEW MAGNETIC DOOR HOLD OPEN DEVICE	SURFACE MOUNT ON WALL. PROVIDE CONCEALED CONDUIT OR PAINTED WIRE MOLDING FOR POWER CIRCUIT.	DOOR HOLDER FOR NORMALLY OPEN DOOR IN RATED WALL. SUPERVISED 24 VDC POWER TO DOOR HOLDER SHALL BE SUPPLIED BY FACP OR REMOTE POWER SUPPLY. RACKOR MODEL 996. 997 OR EQUAL
DO	EXISTING MAGNETIC DOOR HOLD OPEN DEVICE	EXISTING	CONNECT EXISTING DOOR HOLDER TO NEW FIRE ALARM POWER SUPPLY BY FACP OR REMOTE POWER SUPPLY.
ST	NEW FIRE ALARM HORN/STROBE	CEILING MOUNTED ON RECESSED J-BOX.	CANDELA RATING OF STROBE SHALL BE AS INDICATED ON DRAWINGS. STROBES SHALL BE SYNCHRONIZED WITH ALL OTHER STROBES IN VIEW. DEVICE SHALL BE POWERED FROM FACP OR REMOTE NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY. COLOR SHALL BE WHITE SYSTEM SENSOR PC20V OR EQUAL
ST	NEW FIRE ALARM STROBE	CEILING MOUNTED ON RECESSED J-BOX.	CANDELA RATING OF STROBE SHALL BE AS INDICATED ON DRAWINGS. STROBES SHALL BE SYNCHRONIZED WITH ALL OTHER STROBES IN VIEW. DEVICE SHALL BE POWERED FROM FACP OR REMOTE NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY. COLOR SHALL BE WHITE SYSTEM SENSOR PC20V OR EQUAL
EX	NEW EXTERIOR FIRE ALARM HORN/STROBE	WALL MOUNTED ON NEW WEATHERPROOF J-BOX AT HEIGHT INDICATED ON DIMS	CANDELA RATING OF STROBE TO BE A MINIMUM OF 15/75 C4. DEVICE SHALL BE POWERED BY FACP OR REMOTE POWER SUPPLY. COLOR SHALL BE RED. DEVICE SHALL BE LISTED FOR EXTERIOR INSTALLATION
ST	EXISTING FIRE ALARM HORN	EXISTING TO BE REMOVED.	REMOVE EXISTING DEVICE AND WIRING AND PROVIDE COVER PLATE (APPROVED BY OWNER) FOR EXISTING J-BOX
ST	EXISTING FIRE ALARM BELL	EXISTING TO BE REMOVED.	REMOVE EXISTING DEVICE AND WIRING AND PROVIDE COVER PLATE (APPROVED BY OWNER) FOR EXISTING J-BOX

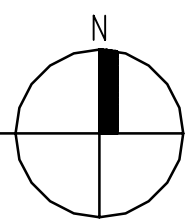


CEILING NOTES:

1. AREAS ABOVE AND BELOW CENTRAL MEZZANINE HAVE GYP-BOARD OR LAY-IN TILE CEILINGS (APPROXIMATELY 9'-0" AFF).
2. WAREHOUSE, SHOP AND WELDING AREAS ARE OPEN TO STRUCTURE (NO CEILINGS).

SHOP BUILDING FIRE ALARM PLAN

1/8" = 1'-0"



UDOT REGION 1 - OFFICE BUILDING & SHOP

OGDEN, UTAH

FIRE ALARM SYSTEM UPGRADE

DFCM PROJECT #07217900

SHOP BUILDING
FIRE ALARM PLAN
FA-2

DRAWING DATE:
06/29/07

REVISION DATE:
XXXX07

REVISIONS:

JOB NO. 104155

DWG ISSUE: BID

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DRAWN BY: BGH

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